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PATENT  
Attorney Docket No. 4034.0018-02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Technology Center 2100

In re Application of:

Chisato KATO et al.

Cont. of Serial No.: 08/016,979  
filed February 12, 1993

Serial No.: Not yet assigned

Filed: January 8, 2001

For: APPARATUS AND METHOD  
FOR FEEDBACK-ADJUSTING WORKING  
CONDITION FOR IMPROVING  
DIMENSIONAL ACCURACY OF  
PROCESSED WORKPIECES

Group Art Unit: 2306

Examiner: B. Oakes

Assistant Commissioner for Patents  
Washington, D.C. 20231

**Match & Return**

Sir:

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)**

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), applicants bring to the attention of the Examiner the documents listed on the attached PTO 1449. This Information Disclosure Statement is being filed within three months of the filing date of the above-referenced application.

Copies of the listed documents were previously submitted or cited by the Examiner in prior application Serial No. 08/016,979, filed February 12, 1993, upon which applicants rely for the benefits provided in 35 U.S.C. § 120. Applicants respectfully request that the Examiner consider the listed documents in the parent file

and indicate that they were considered by making appropriate notations on the attached form.

Although the undersigned does not read or understand Japanese, on information and belief, the following is a concise explanation of the non-English language documents:

Laid-open Publication No. 2-259905 discloses a fuzzy inference control system wherein propositions of fuzzy rules are formulated according to specific concepts so that the fuzzy rules meet human feeling and mind.

Laid-open Publication No. 2-259906 discloses an external data input means connected to fuzzy inference controller, for setting weights applied to fuzzy rules in fuzzy inference ratios.

Laid-open Publication No. 2-260001 shows a fuzzy inference technique wherein antecedent parameters or variables are determined so as to minimize an error between fuzzy inference values and actual output values, so that input-output relations can be identified from varying inputs and outputs.

Laid-open Publication No. 2-260002 shows a fuzzy inference control vice capable of future forecasting, by using timewise served values for input data, and employing a learning technique of neural network models for output data.

Laid-open Publication No. 2-260035 shows a system for multi-stage fuzzy inference, permitting not only expert system inference, but multi-stage inference, by means of free description in a knowledge base of fuzzy but flexible knowledge, by using fuzzy linguistic expressions of the user.

Laid-open Publication No. 2-260036 discloses a system wherein coefficients in simultaneous equations for obtaining postcedent rules by minimum square method are stored in memory, and updated when new postcedent identification data are entered, whereby the input and output relations can be identified.

Laid-open Publication No. 2-260039 discloses a fuzzy inference system having a horizontal type search and calculating section wherein satisfaction degrees of antecedents of a predetermined number of fuzzy rules are obtained, and the fuzzy rules are search in the order of the satisfaction degree, so as to facilitate seeking optimum solutions that meet human feeling.

Laid-open Publication No. 2-260040 discloses a fuzzy inference system wherein priority of use of fuzzy rules is determined so as to avoid competitive application of the fuzzy rules.

Laid-open Publication No. 2-260041 discloses a multi-stage fuzzy inference system wherein intermediate stage inference results are transferred to the next inference stage by means of real numbers or fuzzy labels, to effect final inference that meets human estimation.

AUTOMATION, Vol. 35, No. 10, pp. 74-75 shows a basic feedback control technique associated with automatic measurement.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and applicants determine


that the cited document(s) do not constitute "prior art" under United States law, applicants reserve the right to present to the Patent and Trademark Office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,  
GARRETT & DUNNER, L.L.P.

By:   
James W. Edmondson  
Reg. No. 33,871

Date: January 8, 2001